Customization of telemetry Dashbaords in Health Insights

Dashboards in KPI definition

Dashboards

Here is an example KPI with 2 dashboards and will be shown in the device view page of Health Insights, and label indicated in this json file will be used as the Label in the UI. value here points to the actual Grafana dashboard json file. These Grafana dashboards will have a InfluxQL queries to show the right KPI data and alerts and uses template variables for runtime customization.

If this dashboard needs to be customized, we should have to updated the pointed json file or add a new one etc.

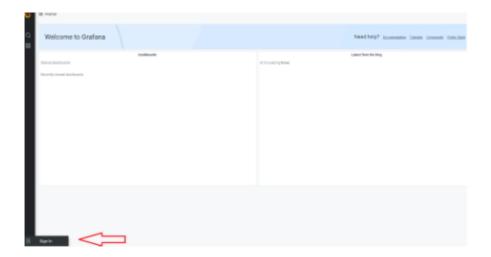
- · Accessing Grafana to allow for dashbaord customization
 - Change grafana.ini configuration file on crosswork VM shell

• Identify and retrive grafana admin credentials

The procedure to retrive the admin credentials to be log-in to grafana UI can be provided by CX team or Development team, please reachout for instructions.

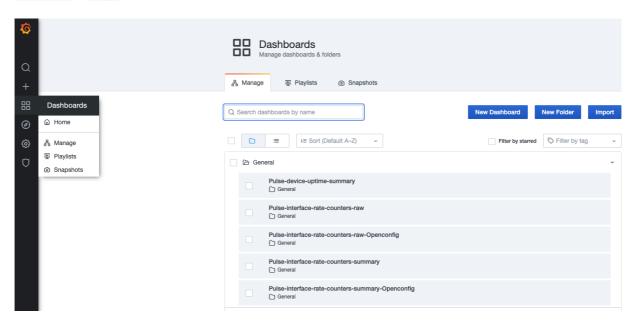
Access grafana UI

Use a chrome or mozella browser with following URL format https://:/robot-grafana/

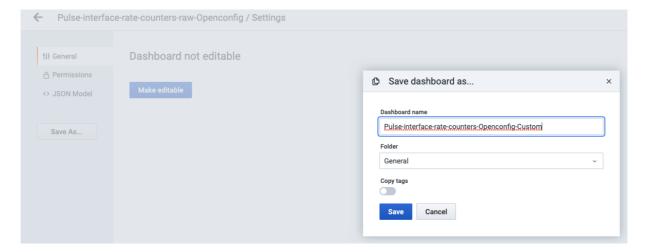


Access, Customize, Save, Export, Package with KPI

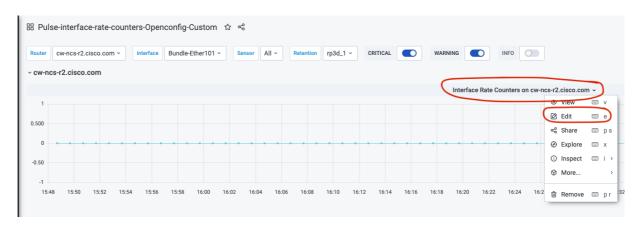
 After grafana access is enabled based on the steps above, access the dashboard that needs customization from Dashboards > Manage

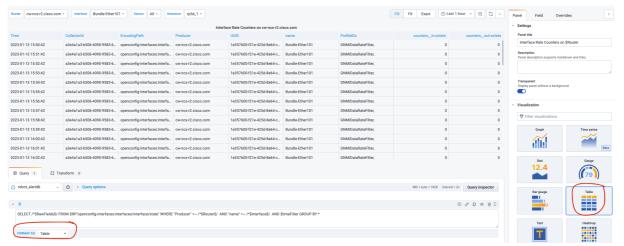


• Choose the dashboard and save as with a new name and set it as editable Dashboard settings > Save As...

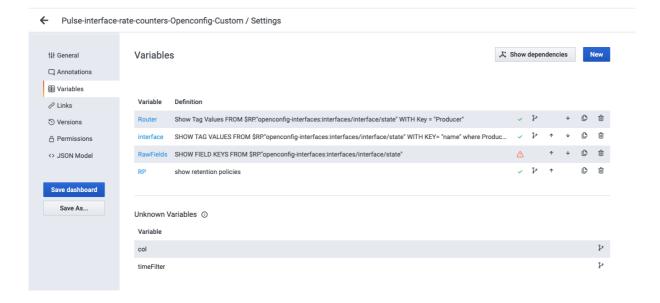


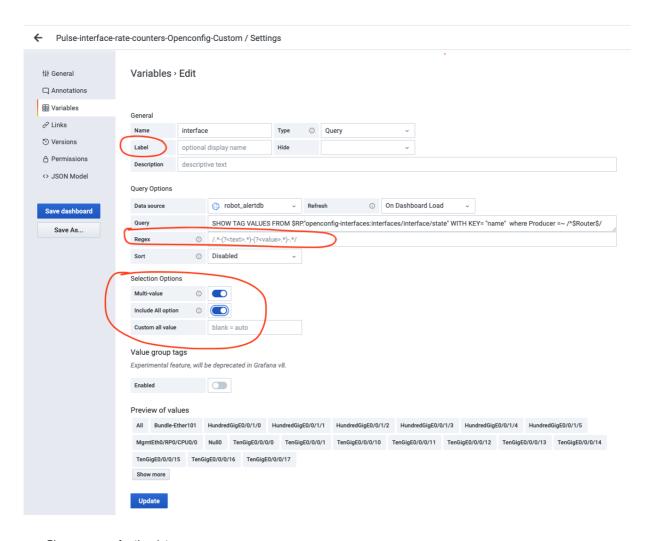
- Edit and modify dashboard panels, charts, Variables as per the need, refer to Grafana Docs for details
- In order to modify the content thats shown in the panels, refer to Influx Quey Builder
- Here are some examples, and ensure at each step SAVE the changes
 - Change a panel type from chart to a table



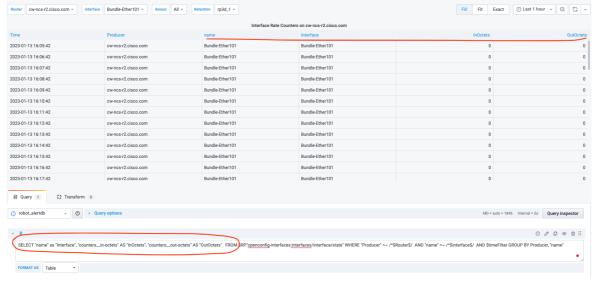


• Change dropdown menu items behavior

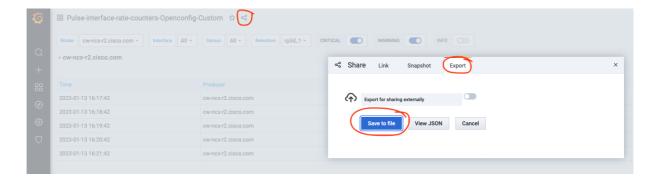




Change query for the data



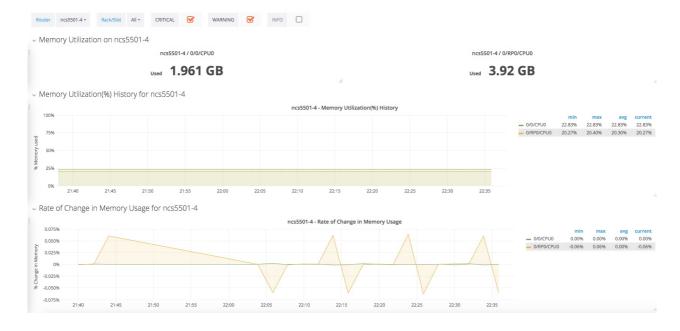
• After all edits are completed, export the dashboard to .json file



- · Adding the new dashboard to KPI
 - Before updating the KPI tarball with this new dashboard, do the following change to the dashboard json file to remove the uid field and save

• Update the kpi tarball and Import the entire KPI pack into crosswork and confirm changes are good by disabling / enabling the KPI again

Dashboard Layout components for reference



- Top band with drop down menus representing templating variables
- Check boxes representing selection of Alerts shown as vertical lines called annotations
- Rows containing one or more panels

Templating / Drop down selectors

• templating is a way to make dashboards more usable by being able to drill down and enable visual debugging

It is achieved using a set of variables, with labels and options like Select All, Multi Selection etc.

Items in each of these varibles are loaded dynamically based on InfluxQL queries. Queries used here result in

- · Controlling the repeat functionality
- Panel types available
- · Showing Alerts on panels

Templating and Customization

- Using template variables in InfluxQL queries
- Hiding and pre-setting values for Template variables

Adding / Updating rows and panels

- Basics of influxQL, Usage of group-by
- Debugging Queries
- Using keys in setting up Legends
- Using group-by time() for aggregation
- Adding Single Stat panels
- · Using repeat functionality

More settings for panels

- · points vs lines vs histograms
- · Pie Charts
- · Units and labels
- · Stacking Charts
- Tweaking Legends